What is claimed is:

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1. An edgewise orthodontic bracket comprising:
gingival and occlusal tie wings defining a labially
opening archwire slot therebetween, each of the gingival
and occlusal tie wings having a mesial/distal extent; and,

a first set of ging wal and occlusal ligating support means, the gingival ligating support means being disposed within the mesial/distal extent of said gingival tie wing and including a sloped portion extending labially toward the archwire slot, and the occlusal ligating support means being disposed within the mesial/distal extent of said occlusal tie wing and including a sloped portion extending labially towards the archwire slot.

- 2. An edgewise orthodontic bracket as recited in Claim 1, wherein said gingival ligating support means further comprises a concave notch extending from a gingival edge of said gingival tie wing towards said archwire slot, and wherein said occlusal ligating support means further comprises a concave notch extending from an occlusal edge of said occlusal tie wing toward said archwire slot.
- 3. An edgewise orthodomtic bracket as recited in Claim 1, further comprising:

a second set of gingival and occlusal ligating support means; and,

said first set of gingival and occlusal ligating support means being disposed on a mesial side of said bracket, and said second set of gingival and occlusal

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ligating support means being disposed on a distal side of said bracket.

4. An edgewise orthodontic bracket as recited in Claim 3, wherein:

said gingival tie wing further comprises a gingivallyextending center leg portion and gingivally-extending mesial and distal tie wing tip portions;

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said occlusal tie wing further comprises an occlusally-extending center leg portion and occlusally-extending mesial and distal tie wing tip portions;

wherein gingival edges of said gingival tie wing and occlusal edges of said occlusal tie wing define an elliptical configuration.

- 5. An edgewise orthodontic bracket as recited in Claim 3, further comprising:
- a first set of opposing convex sidewall portions and a first convex floor portion within said archwire slot, wherein said first set of convex sidewall portions and said first convex floor portion are positioned substantially between said gingival and occlusal ligating support means of said first set of ligating support means; and,

a second set of opposing convex sidewall portions and a second convex floor portion within said archwire slot, wherein said second set of convex sidewall portions and said second convex floor portion are positioned substantially between said gingival and occlusal ligating support means of said second set of ligating support means.

4. An edgewise orthodontic bracket comprising:

gingival and occlusal tie wings positioned in opposing relation to define a labially opening archwire slot therebetween;

said gingival tie wing having a gingivally-extending center leg and integral, gingivally-extending mesial and distal tie wing tip portions;

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said occlusal tie wing having an occlusally extending center leg and integral, occlusally-extending mesial and distal tie wing tip portions; and

a cantilevered, T-shaped hook extending from and integral with the center leg portion of one of said gingival and occlusal tie wings.

An edgewise orthodontic bracket as recited in Claim 6, said T-shaped hook comprising:

a tapered portion contiguous with said center leg portion of said one of said gingival and occlusal tie wings;

a neck portion contiguous with said tapered portion; and,

a head portion contiguous with said neck portion.

An edgewise orthodontic bracket comprising:

first and second opposing tie wings defining a labially opening and mesiodistally-extending archwire slot therebetween, said first tie wing having an outer sidewall extending labially away from a longitudinal center plane of said archwire slot, said second tie wing having an outer sidewall extending substantially parallel to said longitudinal center plane of the archwire slot, wherein a trapezoidal configuration is defined between said outer sidewalls.

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A bracket, as claimed in Claim 8, further comprising:

a base, said first and second tie wings extending upwardly from said base. \checkmark

A bracket, as claimed in Clam 9, wherein:

said first and second tie wings are positioned on gingival and occlusal sides, respectively, of said archwire slot;

said archwire slot has an archwire engaging bottom portion which is contained within a reference plane; and

said base has gingival and occlusal edges, said base extending generally parallel with said reference plane from said gingival to said occlusal edge.

A bracket, as claimed in Clam 8, wherein:

said first and second tie wings are positioned on gingival and occlusal sides, respectively, of said archwire slot;

said archwire slot has an archwire engaging bottom portion which is contained within a reference plane; and

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said base has gingival and occlusal edges, said base extending generally toward said reference plane from said gingival edge to said occlusal edge.

A bracket, as claimed in Clam %, wherein:

said first and second tie wings are positioned on gingival and occlusal sides, respectively, of said archwire slot;

said archwire slot has an archwire engaging bottom portion which is contained within a reference plane; and

said base has gingival and occlusal edges, said base extending generally away from said reference plane from said gingival edge to said occlusal edge.

 $\it H$ 12. An edgewise orthodontic bracket comprising:

gingival and occlusal tie wings define a labially opening archwire slot therebetween, said archwire slot having opposing sidewalls and an adjoining floor;

a first convex portion extending labially from said floor and across said archwire slot; and,

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a first auxiliary slot positioned under said convex portion.

An edgewise orthodontic bracket as recited in Claim 1/3, further comprising:

- a second convex portion extending labially from said floor and across said archwire slot; and,
- a second auxiliary slot positioned under said second convex portion;

wherein said first convex portion and said first auxiliary slot are located on a mesial side of said bracket, and said second convex portion and said second auxiliary slot are located on a distal side of said bracket.

15. An edgewise orthodontic bracket comprising:
gingival and occlusal tie wings defining a labially
opening archwire slot therebetween;

an auxiliary slot extending from an outer sidewall of said gingival tie wing to an outer side of said occlusal tie wing; and,

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an auxiliary device having a shaft portion positionable within said auxiliary slot;

said auxiliary/slot and said shaft portion of said auxiliary device having complimentary configurations wherein rotational movement therebetween is restricted.

/16. An edgewise orthodontic bracket as recited in Claim 15, wherein said auxiliary slot comprises adjoining, flat sidewalls, and wherein said shaft portion of said auxiliary device comprises complimentary adjoining, flat outer sidewalls.





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17. An orthodontic bracket comprising:

a base attachable to a tooth;

a body portion attached to said base and having at least one pair of opposing sidewalls; and

first and second displaced auxiliary slots, said first and second auxiliary slots each extending from one of said sidewalls to the other of said sidewalls.

33.28. An orthodontic bracket as recited in Claim 17, wherein said first and second auxiliary slots are substantially parallel, said first auxiliary slot being positioned on a mesial side of said bracket, said second auxiliary slot being positioned on a distal side of said bracket.

19. An orthodontic bracket as recited in Claim 17, wherein said body portion comprises gingival and occlusal tie wings defining a labially opening archwire slot therebetween, said archwire slot having a floor and being generally mesially-distally extending.

An orthodontic bracket as recited in Claim 18, further comprising first and second convex floor portions projecting from said floor of said archwire slot and extending across said archwire slot, said first and second auxiliary slots extending through said first and second convex floor portions, respectively.

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